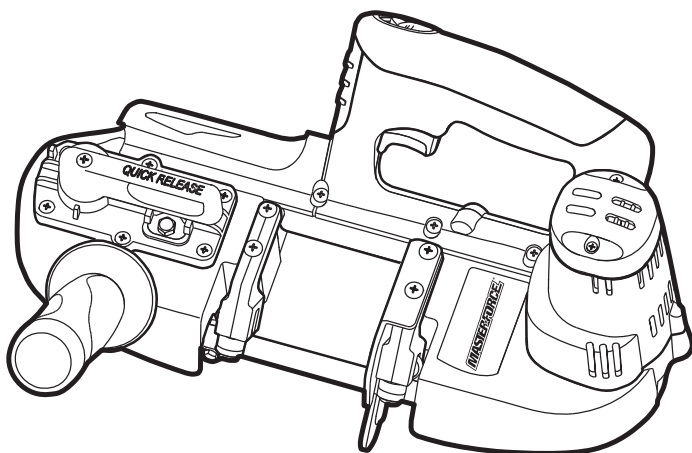


# MASTERFORCE®

## FLEXPOWER®

CHOOSE YOUR TOOL. CHOOSE YOUR POWER.

### 20 Volt Portable Band Saw



241-0440

## OPERATOR'S MANUAL

**⚠ CAUTION:** To Reduce The Risk Of Injury, User Must Read And Understand The Operator's Manual. Save These Instructions For Future Reference.




For questions / comments, technical assistance or repair parts –  
Please Call Toll Free: 1-866-917-4374. (M-F 8am – 6pm EST.)

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# SAFETY SYMBOLS

Some of these following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.

Symbol	Name	Designation / Explanation
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
Min	Minutes	Time
~	Alternating current	Type of current
—	Direct current	Type of characteristic of current
$n_0$	No-load speed	Rotational speed at no load
	Class II construction	Double insulated construction
.../min	Per minute	Revolutions, strokes, surface speed orbits, etc., per minute
	Wear safety goggles	 <b>WARNING:</b> The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full-face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

 **WARNING:** To ensure safety and reliability, all repairs should be performed by a qualified service technician.

# SAFETY INSTRUCTIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

**⚠ WARNING:** Be sure to read and understand all safety instructions in this manual, including all safety alert symbols such as “DANGER,” “WARNING,” and “CAUTION” before using this tool. Failure to following all instructions listed below may result in electric shock, fire, and/or serious personal injury.

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## SYMBOL MEANING



**SAFETY ALERT SYMBOL:** Indicates DANGER, WARNING, OR CAUTION.  
May be used in conjunction with other symbols or pictographs.



**DANGER:** Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.



**WARNING:** Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.



**CAUTION:** Indicates a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury.

**NOTICE:** (Without Safety Alert Symbol) Indicates a situation that may result in property damage.

**SAVE THESE INSTRUCTIONS!**

# SAFETY INSTRUCTIONS

**⚠ WARNING:** Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury.

Save all warnings and instructions for future reference.

The term power tool in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

**⚠ WARNING:** Risk of fire and electric shock. Dry location use only. Do not expose to rain. Risk of injury.

## WORK AREA SAFETY

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

## ELECTRICAL SAFETY

1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
2. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

4. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

5. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

6. **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

## PERSONAL SAFETY

1. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Use personal protective equipment.** Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection, used for appropriate conditions, will reduce personal injuries.
3. **Prevent unintentional starting.** Ensure that the switch is in the off-position before connecting to power source and / or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

# SAFETY INSTRUCTIONS

4. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

5. **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

6. **Dress properly.** Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

7. **If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

5. **Maintain power tools.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. **Use the power tool, accessories, tool bits etc., in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

## USE AND CARE OF THE POWER TOOLS

1. **Do not force the power tool.** Use the correct power tool for your application. The correct power tool will do the job better and more safely at the rate for which it was designed.

2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

3. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

4. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

## BATTERY TOOL USE AND CARE

1. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

2. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

3. **When the battery pack is not in use, keep it away from other metal objects, such as paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.

4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** If contact accidentally occurs, flush with water. If liquid contacts eyes, also seek medical help. Liquid ejected from the battery may cause irritation or burns.

# SAFETY INSTRUCTIONS


## SERVICE

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

## SPECIFIC SAFETY RULES FOR RECIPROCATING SAW

1. Use battery only with charger listed.

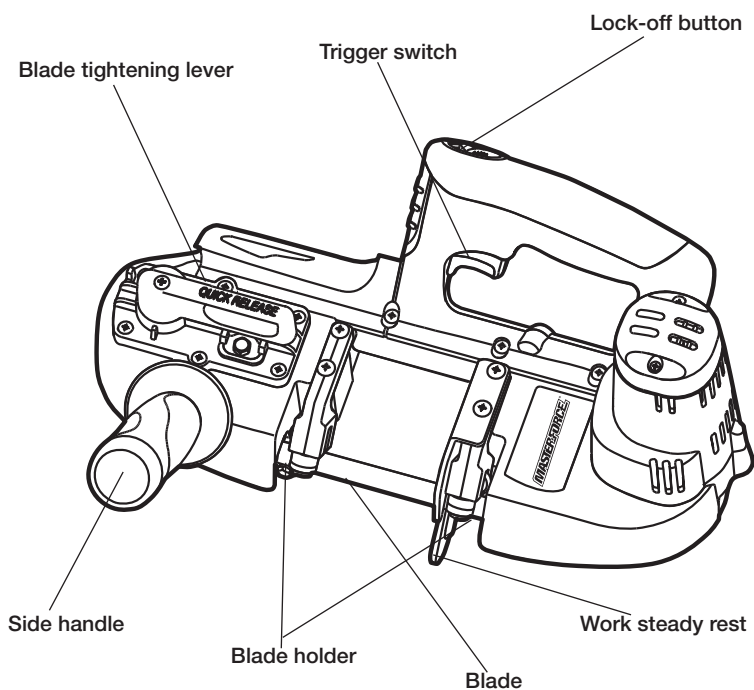
Battery pack	Charger
252-8024	
252-8028	
252-8029	252-8036
252-8030	252-8037
252-8031	252-8044
252-8032	
252-8033	
252-8034	

 **DANGER:** Keep hands away from cutting area and blade. Keep your second hand on the auxiliary handle or motor housing. If both hands are holding the saw, the blade cannot cut them.

 **DANGER:** Blades coast after saw is switched off.

1. Hold tool by insulated gripping surfaces (handles) when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a “live” wire will make the exposed metal parts of the tool “live” and shock the operator.
2. Cutting workpieces covered with oil can cause the blade to come off unexpectedly. Wipe off all excess oil from workpieces before cutting.
3. Keep your body positioned to either side of the saw blade, but not in line with the saw blade.
4. Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
5. Do not cut an oversized workpiece.
6. Check for the proper clearance under the workpiece before cutting so that the blade will not strike the workbench or material under the workpiece.
7. Make sure the blade is not contacting the workpiece before reaching full speed.
8. Secure material before cutting. Never hold a workpiece in your hand or legs. Small or thin material may flex or vibrate with the blade, causing loss of control.
9. Never reach into the cutting path of the blade.

## OVERVIEW



## SPECIFICATIONS

PRODUCT SPECIFICATIONS	
No load Speed	550FPM
Blade Size	28-13/16" Length 1/2" Width .020" Thickness
Cutting capacity	Round piece Dia. 2-1/2" Or Rectangle piece 2-1/2" x 2-1/2"
Saw Weight (without battery)	5lbs. 15oz.



# ASSEMBLY

**⚠ WARNING:** If any part is broken or missing, do not attempt to attach the battery or operate the saw until the broken or missing parts are replaced. Failure to do so could result in possible serious injury.

**⚠ WARNING:** Do not attempt to modify this saw or create accessories not recommended for use with this saw. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury.

**⚠ WARNING:** To prevent accidental starting that could cause serious personal injury, always remove the battery pack from the saw when assembling parts.

## UNPACKING

This product has been shipped completely assembled.

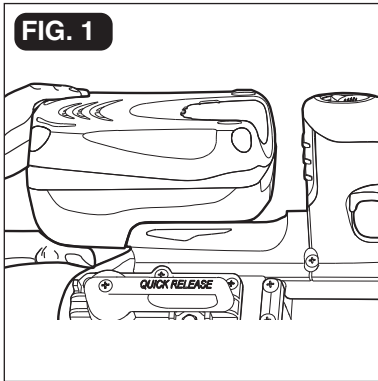
1. Carefully remove the tool and any accessories from the box. Make sure that all items listed in the packing list are included.
2. Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
3. Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.

## CONTENTS

Portable band saw, Side handle , Saw blade, Operator's manual

# OPERATION

## TO ATTACH BATTERY PACK (FIG.1)



1. Lock the trigger switch in the “off” position.
2. Align the raised portion on the battery pack with the grooves on the saw, and then attach the battery pack to the tool as shown.

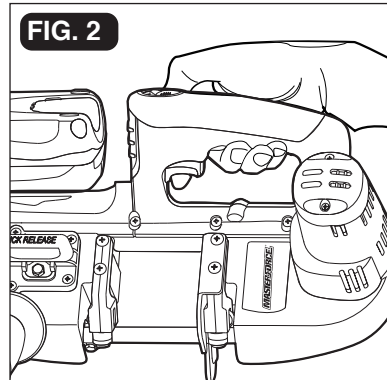
**NOTICE:** Make sure that the latch on the battery pack snaps into place and the battery pack is secured to the tool before beginning operation.

**CAUTION:** when placing battery pack on the tool, be sure that the raised rib on battery pack aligns with the groove on the saw and the latches snap into place properly. Improper assembly of the battery pack can cause damage to internal components.

## TO DETACH BATTERY PACK (FIG. 1)

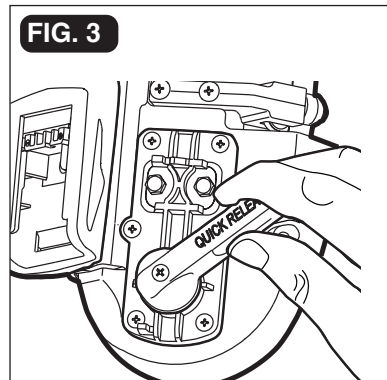
1. Lock the trigger switch in the “off” position.
2. Depress the battery release button located on the battery pack to release battery pack.
3. Pull the battery pack out and remove it from the tool.

## TRIGGER SWITCH (FIG. 2)



To turn the tool ON, push the lock-off button and depress the trigger switch.  
To turn the tool OFF, release the switch trigger.

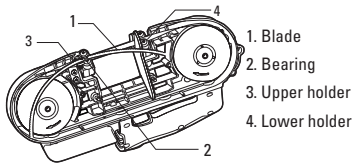
## INSTALLING A SAW BLADE (FIG.3)



**WARNING:** To prevent personal injury, always remove the battery pack from the tool before installing or removing the saw blade!

# OPERATION

**FIG. 4**

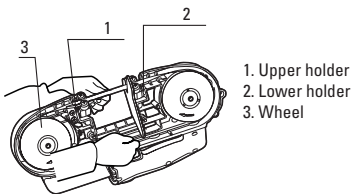


**WARNING:** Be sure that the blade is properly seated on the pulleys before starting the cut.

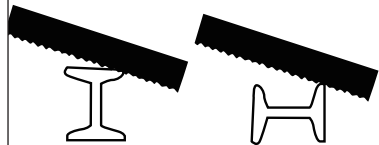
To remove the blade, follow the installation procedure in reverse.

**WARNING:** The blade may kick up as you released the blade tightening lever. Do not face to the blade or position the blade toward your body. Keep distance with it.

**FIG. 5**



**FIG. 6**



1. Detach the battery pack from the saw.
  2. Detach the side handle.
  3. Turn the blade tightening lever counter clockwise 180°.
  4. Making sure that the teeth on the left side of the tool point towards the rear of the tool.
  5. Position the blade around the wheel and insert the other side of the blade into upper holder and the lower holder until the blade back contact the bottom the upper and lower holder.
  6. Hold the blade in place and turn the blade tightening lever counter-clockwise 180°, this places proper tension on the blade.
  7. Start and stop the saw two or three time to make sure the blade runs properly on the wheel.
1. Keep the blade off the workpiece until the motor has reached the selected speed.
  2. Start cutting on a surface where the greatest number of teeth will be in contact with the workpiece at one time (Fig 6).
  3. Place the work steady rest against the workpiece and lower the moving saw blade into the cut.
  4. Do not bear down while cutting. The weight of the tool will supply adequate pressure for the fastest cutting.
  5. When completing a cut, hold the tool firmly so it will not fall against the work-piece.

# MAINTENANCE

**⚠ WARNING:** Always wear safety goggles or safety glasses with side shields during power tool operations, or when blowing dust. If operation is dusty, also wear a dust mask.

It has been found that electric tools are subject to accelerated wear and possible premature failure when they are used to work on fiber glass boats and sports cars, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electrical tool parts, such as bearings, brushes, commutators, etc. Consequently, it is not recommended that this tool be used for extended work on any fiberglass material, wallboard, spackling compound or plaster. During any use on these materials, it is extremely important that the tool is cleaned frequently by blowing with an air jet.

**⚠ WARNING:** Do not at any time let brake fluid, gasoline, petroleum-based products, penetrating oils, etc. come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic, which may result in serious personal injury.

Periodic maintenance allows for long life and trouble-free operation. A cleaning and maintenance schedule should be maintained. As a common preventive maintenance practice, follow these recommended steps:

1. When work has been completed, clean the tool to allow smooth functioning of the tool over time.
2. Use clean damp cloths to wipe the tool.
3. Check the state of all electrical cables.
4. Keep the motor air openings free from oil, grease and sawdust or woodchips, and store tool in a dry place.
5. Be certain that all moving parts are well lubricated, particularly after lengthy exposure to damp and/or dirty conditions.

## LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the tool under normal operating conditions. Therefore, no further lubrication is required.

**⚠ WARNING:** To ensure safety and reliability, all repairs should be performed by a qualified service technician at an authorized Service Center.

**⚠ WARNING:** For your safety, always turn off the switch and remove the battery from the band saw before performing any maintenance or cleaning.

The tool may be cleaned most effectively with compressed dry air. Always wear safety goggles when cleaning tools with compressed air.

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

**⚠ WARNING:** When servicing, use only identical MASTERFORCE replacement parts. Use of any other parts may create a hazard or cause product damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician at an authorized Service Center.

## TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The saw does not work	Battery is depleted	Charge the battery

## NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



## **20 VOLT PORTABLE BAND SAW**

# **WARRANTY**

### **90-DAY MONEY BACK GUARANTEE:**

This MASTERFORCE® brand power tool carries our 90-DAY Money Back Guarantee. If you are not completely satisfied with your MASTERFORCE® brand power tool for any reason within ninety (90) days from the date of purchase, return the tool with your original receipt to any MENARDS® retail store, and we will provide you a refund – no questions asked.

### **3-YEAR LIMITED WARRANTY:**

This MASTERFORCE® brand power tool carries our famous No Hassle 3-Year Limited Warranty to the original purchaser. If, during normal use, this MASTERFORCE® power tool breaks or fails due to a defect in material or workmanship within three (3) years from the date of original purchase, simply bring this tool with the original sales receipt back to your nearest MENARDS® retail store. At its discretion, MASTERFORCE® agrees to have the tool or any defective part(s) repaired or replaced with the same or similar MASTERFORCE® product or part free of charge, within the stated warranty period, when returned by the original purchaser with original sales receipt. Notwithstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but not limited to blades, brushes, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.

For questions / comments, technical assistance or repair parts – Please Call Toll Free at: 1-866-917-4374. (M-F 8am – 6pm EST)

**SAVE YOUR RECEIPTS  
THIS WARRANTY IS VOID WITHOUT THEM**

**MASTER★FORCE®**

**MENARDS®**